HITACHI
SERVICE MANUAL

GF | No.0012E

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CT1956

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CAUTION: Before servicing this chassis, it is important that the service technician read the "Safety Precaution" and "Product Safety Notices" in this Service Manual.

TECHNICAL SPECIFICATIONS

ANTENNA INPUT IMPEDANCE 300Ω, 75Ω
CHANNEL COVERAGE
- VHF ..... 2 – 13
- UHF ..... 14 – 69
- CATV MID BAND ..... A – I
- SUPPER BAND ..... J – W

CHANNEL INDICATOR ..... DIGITAL/ON SCREEN
INTERMEDIATE FREQUENCY
- Picture I-F Carrier ..... 45.75 MHz
- Sound I-F Carrier ..... 41.25 MHz
- Sound I-F ..... 4.50 MHz

POWER INPUT AC120V, 60Hz
POWER RATING 96W
CONVERGENCE ..... Self convergence
FOCUS ..... Electrostatic
PICTURE TUBE A48AAJ10X
SOUND OUTPUT 2W
DIMENSIONS
- W ..... 51.0 cm
- H ..... 48.1 cm
- D ..... 47.6 cm

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

SOLID STATE COLOUR TELEVISON

August 1985 **GIFU WORKS**

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis or picture tube.

WARNING: Since the chassis of this receiver is connected to one side of AC power supply during operation, whenever the receiver is plugged in, service should not be attempted by anyone unfamiliar with the precautions necessary when working on this type of receiver.

The following precautions should be observed:

1. Do not install, remove, or handle the picture tube in any manner unless shatterproof goggles are worn. People not so equipped should be kept away while picture tubes are handled. Keep picture tube away from the body while handling.
2. When service is required, an isolation transformer should be inserted between power line and the receiver before any service is performed on a "HOT" chassis receiver.
3. When replacing a chassis in the receiver, all the protective devices must be put back in place, such as barriers, non-metallic knobs, adjustment and compartment cover-shields, isolation resistor-capacitor, etc.
4. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
5. Always use the manufacturer's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
6. Before returning a serviced receiver to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the receiver by the manufacturer has become defective, or inadvertently defeated during servicing.

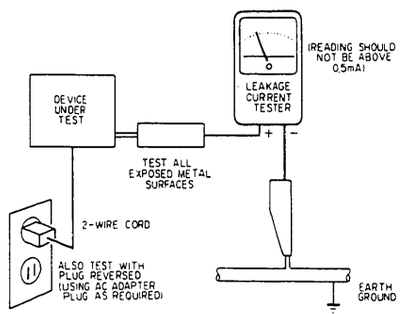
Therefore, the following checks should be performed for the continued protection of the customer and service technician.

Leakage Current Cold Check

With the AC plug removed from the 120V AC 60Hz source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (antennas, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of 0.3MΩ and a maximum resistor reading of 5MΩ. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into a 120V AC 60Hz outlet (do not use an isolation transformer for this check). Turn the AC power switch on. Using a "leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (antennas, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.


(READING SHOULD NOT BE ABOVE 0.5mA)
LEAKAGE CURRENT TESTER
DEVICE UNDER TEST
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE RECEIVER TO THE CUSTOMER.

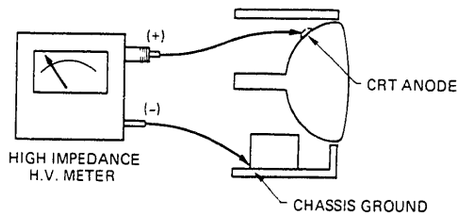
High Voltage

This receiver is provided with a hold down circuit for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this Service Manual regarding this hold down circuit when servicing, so that this hold down circuit may correctly be operated.

Serviceman warning

With minimum Brightness and Picture, operating high voltage in this receiver is lower than 31.0KV. In case any component having influence on high voltage is replaced, confirm that high voltage with minimum Brightness and Picture is lower than 31.0KV. To measure H.V. use a high impedance H.V. meter. Connect (-) to chassis earth and (+) to the CRT anode button. (See the following connection diagram).

NOTE: Turn power switch off without fail before the connection with Anode button is made.



X-radiation

TUBE: The primary source of X radiation in this receiver is the picture tube. The tube utilized for the above mentioned function in this chassis is specially constructed to limit X radiation emissions.

For continued X radiation protection, the replacement tube must be the same type as the orignal, HITACHI approved type.

When trouble shooting and making test measurements in a receiver with a problem of excessive high voltage, avoid being unnecessarily close to the picture tube and the high voltage component.

Do not operate the chassis longer than is necessary to locate the cause excessive voltage.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in HITACHI television receiver have special safety related characteristics. These are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characterisitcs are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, X-radiation, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies of, HITACHI Service Manual may be obtained at a nominal charge from HITACHI SALES CORPORATION.

TECHNICAL CAUTIONS

[CHECK OF HIGH VOLTAGE HOLD DOWN CIRCUIT]

Checking of the high voltage limiter circuit operation

1. Connect a high voltage voltmeter between the CPT anode (anode cap) and GND (TP04).
2. Receive Hitachi circle pattern and set the Brightness and Picture VRs to max. Adjust Screen VR so that the beam current is set to 1.15 ± 0.1 mA.
   (ABL terminal voltage of FBT (both ends of C704) becomes 10 V or less at this time.)
3. Set the AC input voltage to 132 ± 3 V.
4. Check that the steady high voltage is 25.0 ± 2.0 kV at this time.
5. Turn the switch of the set OFF and short-circuit between R904 and D602.
6. Leave the Brightness, Picture, Screen VRs as they are, and turn the set ON after the AC input voltage is set to 0 V. Gradually increase the AC input voltage and check that the picture disappears at the high voltage of 31.0 kV or less.
7. Immediately turn the set OFF after checking that the picture disappears.
8. Remove the adjusting jig and high voltage voltmeter. Note: Be sure to turn the set OFF before connecting/disconnecting the high voltage voltmeter to/from the anode cap. This should be performed after discharging the residual high voltage to the chassis because the residual high voltage may be present at the CPT anode.

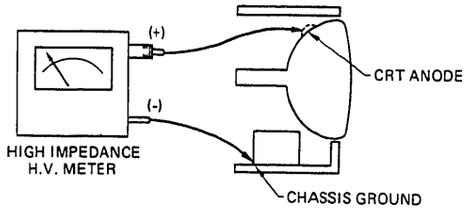


Fig. 1 Connection of H.V. Meter

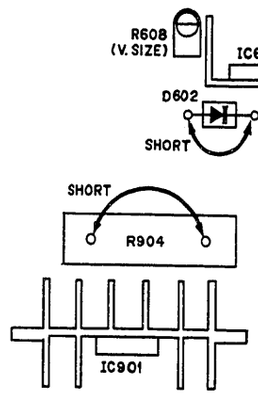
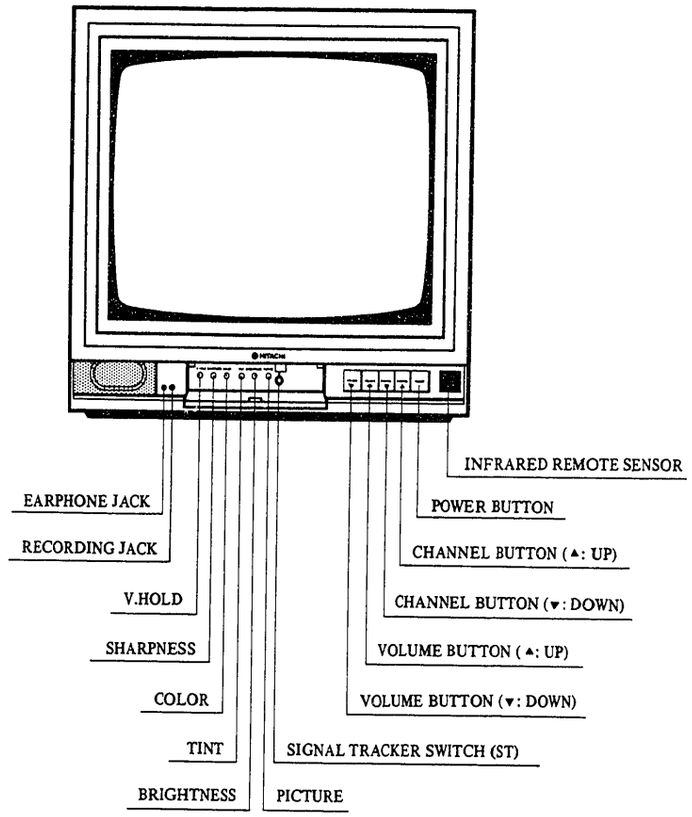


Fig. 2

CONTROLS



OPERATING SUMMARY

HOW TO SELECT CHANNELS

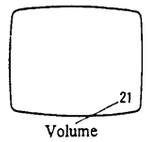
1. **TURNING THE SET ON – (POWER BUTTON)**
Push the POWER BUTTON to turn the set ON. (To turn the set OFF, push the POWER BUTTON again.)

2. **VOLUME CONTROL – (VOLUME BUTTON)**
Push the right side (▲: UP) of the VOLUME BUTTON to make sound louder, and left side (▼: DOWN) of the VOLUME BUTTON to make sound softer.
Variation of the volume is displayed at the lower right of the screen with numerals 0 ~ 63. (Fig. 2)

3. **BAND SELECTION – (BAND SELECTOR SWITCH)**
The BAND SELECTOR SWITCH is installed at the back of the set. Your TV can receive 12 VHF channels, 56 UHF channels and 36 CATV channels. Choose the required reception band by sliding the BAND SELECTOR SWITCH shown in Fig. 1.
■ When shipped from the factory, this switch is set to the "NORM" position.

RECEPTION BAND	
NORM	CATV1 or CATV2
VHF 2-13 ch UHF 14-69 ch	VHF 2-13 ch Mid band A-I Super band J-W

Fig 1



Volume
Fig. 2

4. **CHANNEL SELECTION – (CHANNEL BUTTON)**
Channel selection may be performed by pressing either the CHANNEL BUTTON UP (▲) or DOWN (▼). When pressing the right side (▲: UP) of CHANNEL BUTTON, the next higher channel is selected. And when pressing the left side (▼: DOWN) of the CHANNEL BUTTON, the next lower channel is selected. The No. of the channel to which it is tuned is indicated in the upper right side of the screen (Fig. 3). The channel No. selected is displayed for approx. 4 seconds after changing channels and disappears automatically. (When you turn the set ON, the channel No. is displayed on the screen for approx. 15 seconds.)

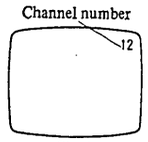


Fig. 3

CABLE ANTENNA (CATV) OPERATION

Your TV can receive Cable Antenna (CATV) system.
Your TV can receive CATV channels 2 through 13, CATV channels A through I ("Mid band" channels) and CATV channels J through W ("Super band" channels). To receive CATV channels, please operate as follows.

1. **CATV ANTENNA CONNECTION**
Connect your CATV cable to the antenna terminal board.

2. **BAND SELECTION – (BAND SELECTOR SWITCH)**
Set the BAND SELECTOR SWITCH on the back of the set to CATV 1 for normal CATV operation.

*If reception of CATV Channel 5 and CATV Channel 6 is poor or not possible set the BAND SELECTOR SWITCH to CATV2.

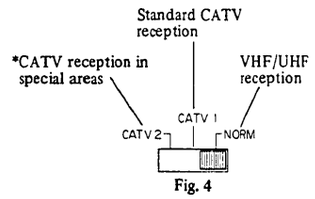
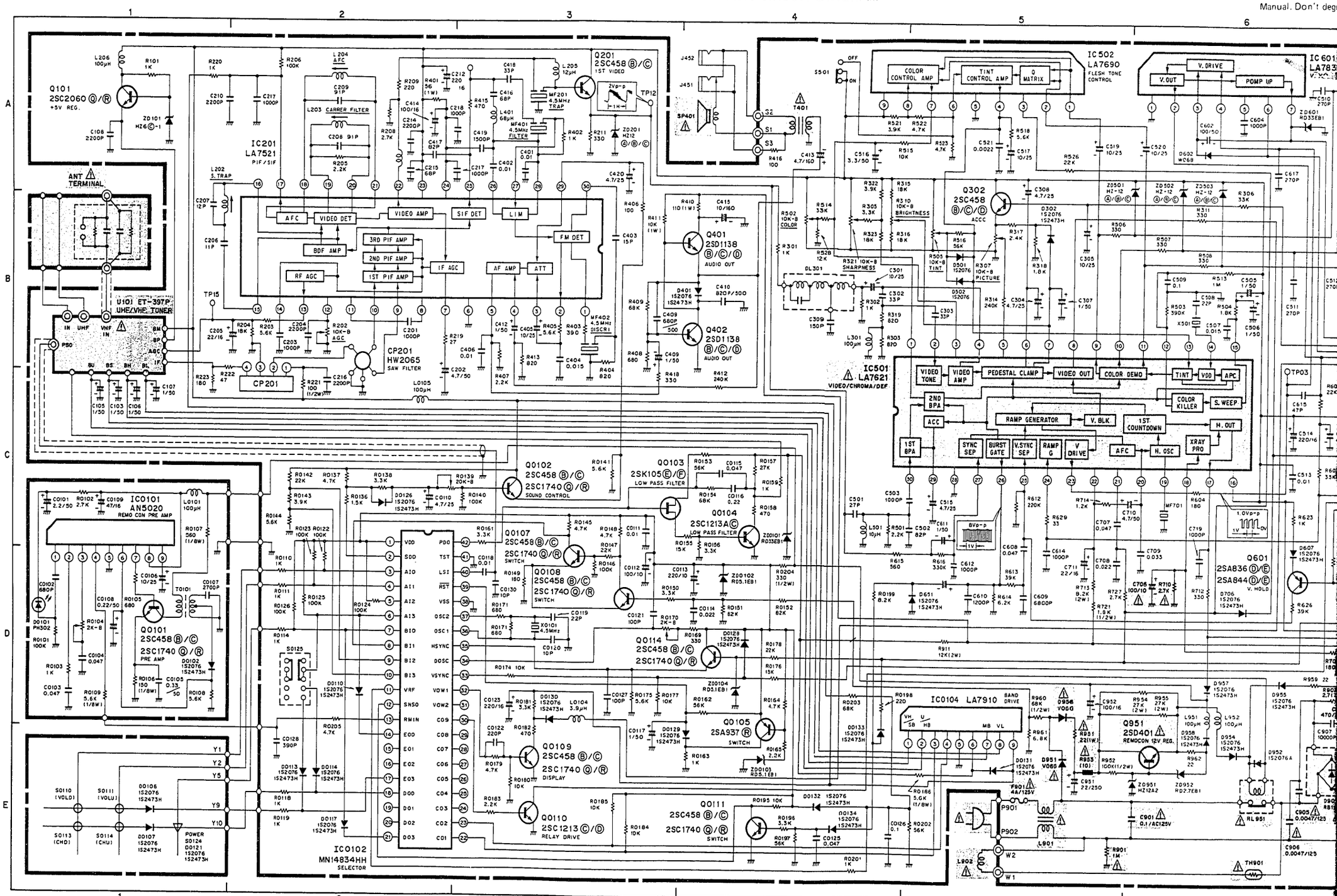


Fig. 4

3. **CHANNEL SELECTION – (CHANNEL BUTTON)**
CATV channel selection can be done with the CHANNEL BUTTON UP (▲) or DOWN (▼) as with VHF/UHF channels. When receiving CATV 2-13 channels, 2-13 is indicated on the screen. When receiving Mid band channels A-I, 14-22 is indicated, and when receiving Super band channels J-W, 23-36 is indicated.

Note: In some areas there is a special channel (4+) between channel 4 and channel 5; this can be received when the BAND SELECTOR SWITCH is set to "CATV2" and channel No. 1 is selected.

BASIC CIRCUIT DIAGRAM

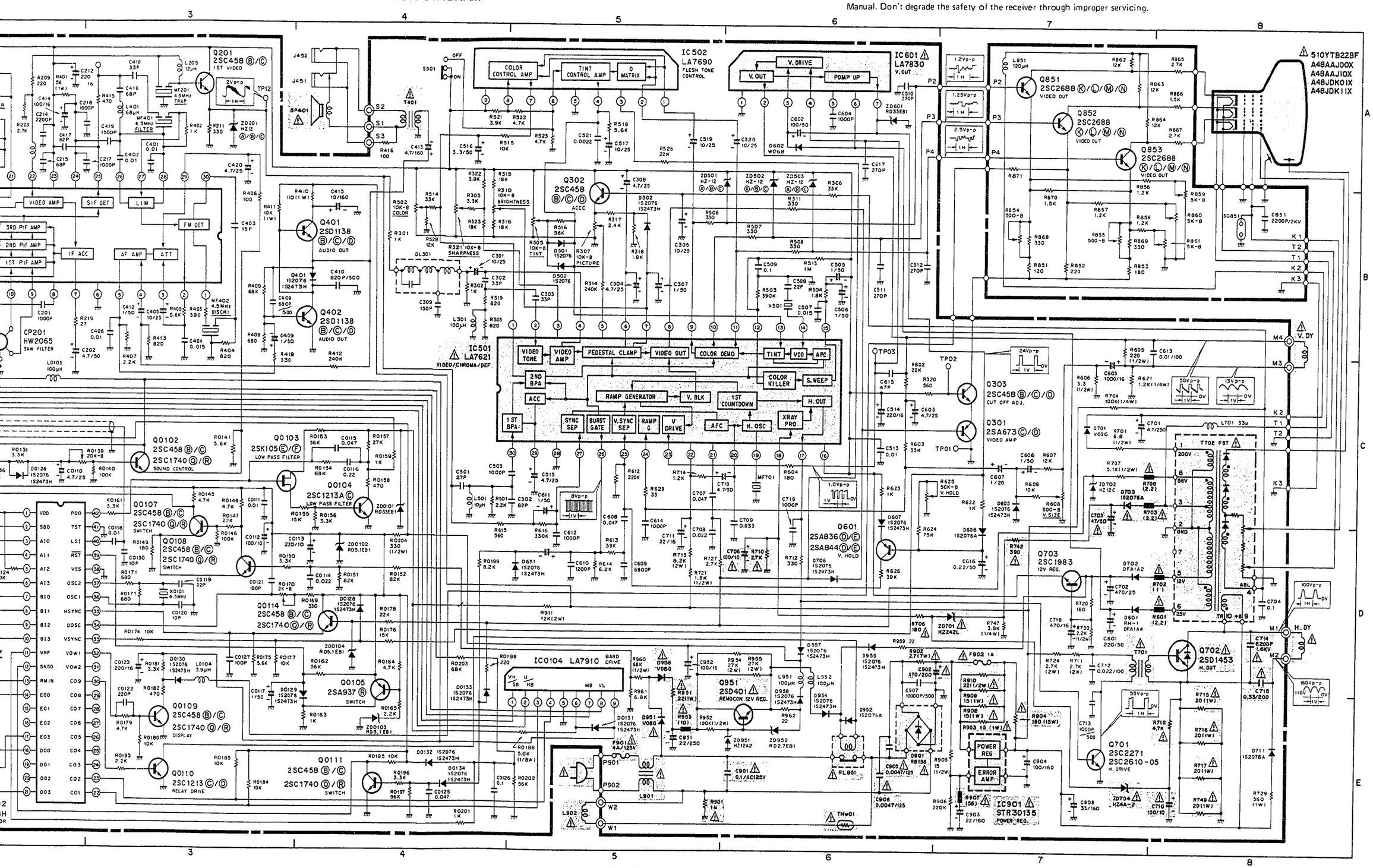


PRODUCT SAFE
safety. Before rep
Manual. Don't deg

- Since this is a basic circuit diagram, the value of the parts is subject to be altered
- All DC voltage to be measured with a tester (100kΩ/V).
  Voltage taken on a complex color bar signal including a standard colro bar signal

BASIC CIRCUIT DIAGRAM

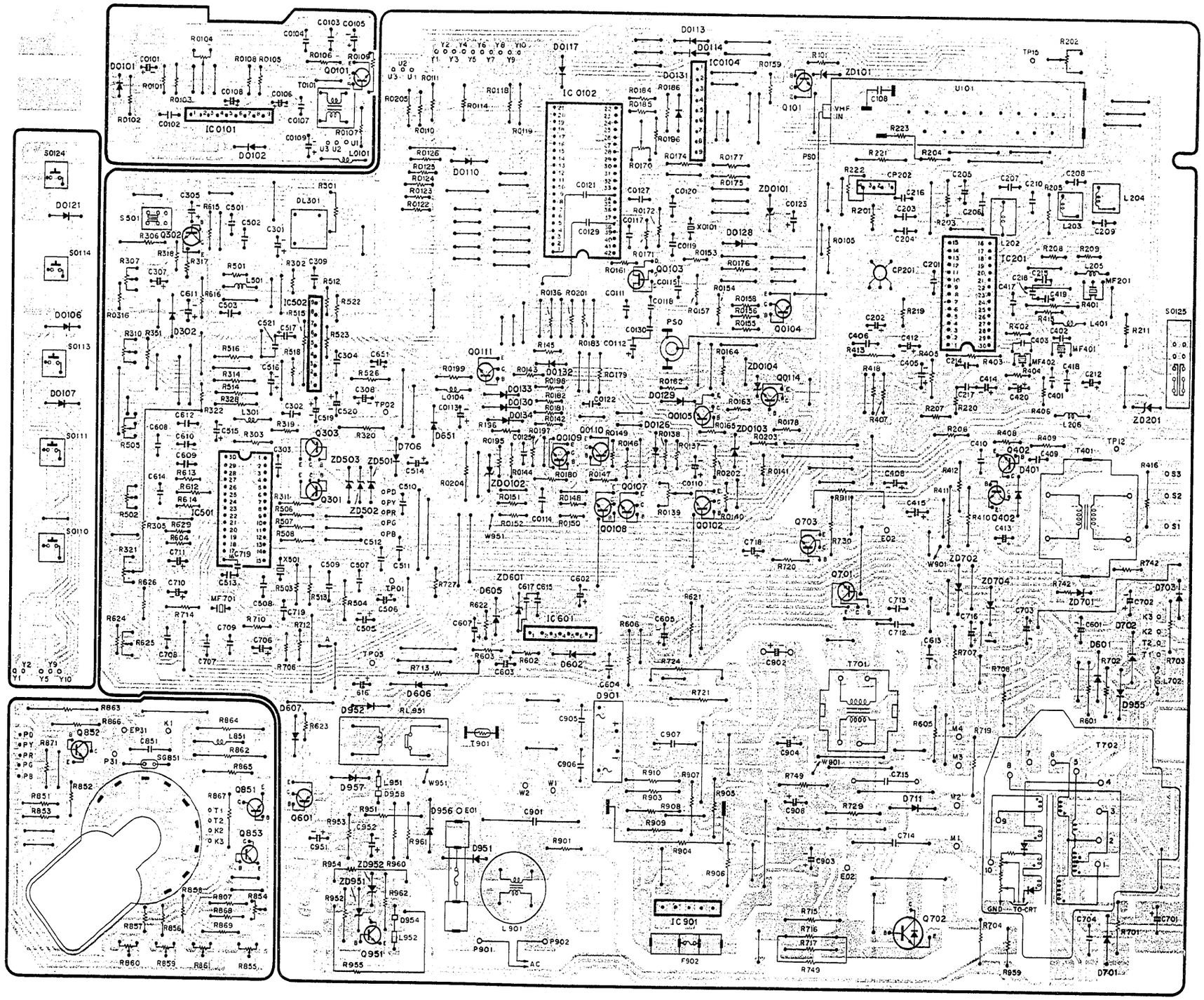
PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these componenets, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



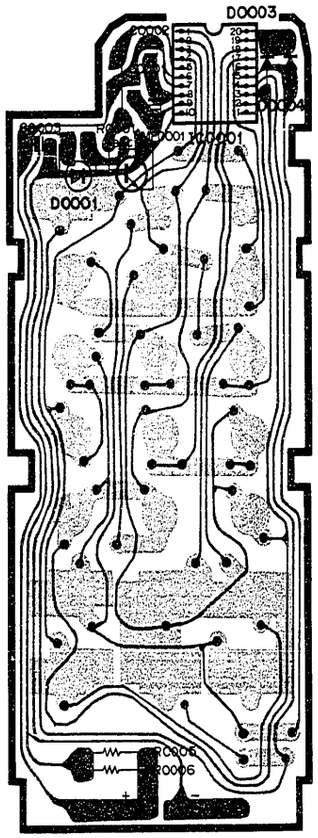
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V).
  Voltage taken on a complex color bar signal including a standard colro bar signal.

MAIN P.W. BOARD

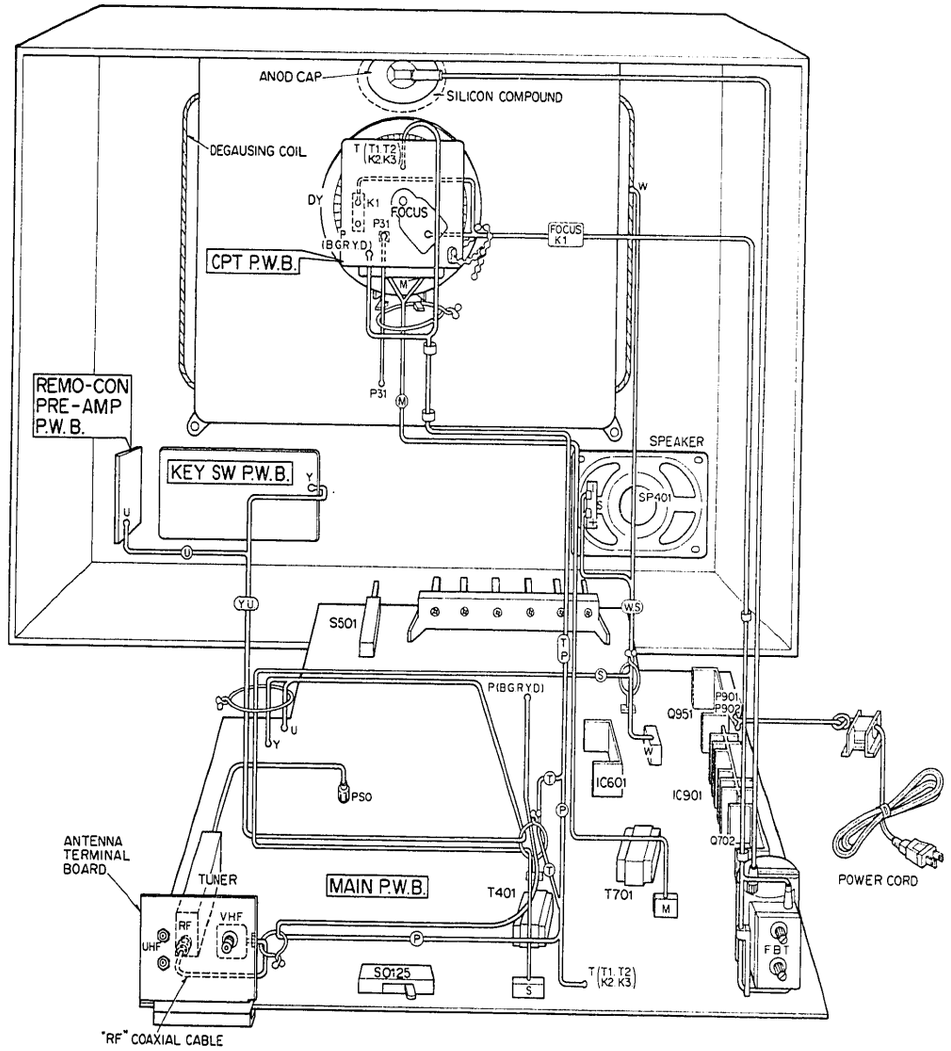
PRINTED WIRING BOARD



REMOTE CONTROL TRANSMITTER P.W. BOARD



WIRING DIAGRAM



REPLACEMENT PARTS LIST

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

ABBREVIATIONS: Capacitors . . . . . CD: Ceramic disk, PF: Polyester film, EL: Electrolytic, PP: Polypropylene, PR: Paper, TA: Tantalum
Resistors . . . . . CF: Carbon film, CC: Carbon composition, MF: Metal oxide film, VR: Varialbe resistor, WW: Wire wound, FR: Fuse resistor

SYMBOL NO.	PART NO.	DESCRIPTION
		CAPACITORS
C0001	0248684	CD 100PF +-5% 50V
C0002	0248684	CD 100PF +-5% 50V
C0003	0253009	EL 100MF 6.3V
C0101	0253083	EL 2,2MF 50V
C0102	0244117	CD 680PF +-10% 50V
C0103	0277021	PF 0,047MF +-10% 50V
C0104	0277021	PF 0,047MF +-10% 50V
C0105	0252807	EL 0,33MF 50V
C0106	0253066	EL 10MF 25V
C0107	0299011	PP 2700PF 100V
C0108	0252806	EL 0,22MF 50V
C0109	0253049	EL 47MF 16V
C0110	0253065	EL 4,7MF 25V
C0111	0277013	PF 0,01MF +-10% 50V
C0112	0253030	EL 100MF 10V
C0113	0253031	EL 220MF 10V
C0114	0277017	PF 0,022MF +-10% 50V
C0115	0277021	PF 0,047MF +-10% 50V
C0116	0277029	PF 0,22MF +-10% 50V
C0117	0253082	EL 1MF 50V
C0118	0277013	PF 0.01MF +-10% 50V
C0119	0246448	CD 22PF +-5% 50V
C0120	0246420	CD 10PF +-0.5% 50V
C0121	0248684	CD 100PF +-5% 50V
C0122	0248692	CD 220PF +-5% 50V
C0123	0253051	EL 220MF 16V
C0125	0277021	PF 0,047MF +-10% 50V
C0126	0277025	PF 0,1MF +-10% 50V
C0127	0248684	CD 100PF +-5% 50V
C0128	0248699	CD 390PF +-5% 50V
C0129	0244139	CD 1000PF +-10% 50V
C0130	0248640	CD 150PF +-0.25PF 50V
C103	0253082	EL 1MF 50V
C105	0253082	EL 1MF 50V
C106	0253082	EL 1MF 50V
C107	0253082	EL 1MF 50V
C108	0244105	CD 2200PF +-10% 50V
C201	0244139	CD 1000PF +-10% 50V
C202	0259958	EL 0,47MF 50V
C203	0244139	CD 1000PF +-10% 50V
C204	0244105	CD 2200PF +-10% 50V
C205	0253047	EL 22MF 16V
C206	0246571	CD 11PF +-5% 50V
C207	0246596	CD 120PF +-5% 50V
C208	0246463	CD 91PF +-5% 50V
C209	0246463	CD 91PF +-5% 50V
C210	0244105	CD 2200PF +-10% 50V
C212	0253051	EL 220MF 16V
C214	0244105	CD 2200PF +-10% 50V
C215	0248680	CD 68PF +-5% 50V
C216	0244105	CD 2200PF +-10% 50V
C217	0244139	CD 1000PF +-10% 50V
C218	0244139	CD 1000PF +-10% 50V
C301	0253066	EL 10MF 25V
C302	0248672	CD 33PF +-5% 50V
C303	0248672	CD 33PF +-5% 50V
C304	0253065	EL 4,7MF 25V
C305	0253066	EL 10MF 25V
C307	0253082	EL 1MF 50V
C308	0253065	EL 4,7MF 25V
C309	0248688	CD 150PF +-5% 50V
C401	0244171	CD 0,01MF +80-20% 50V
C402	0244171	CD 0,01MF +80-20% 50V
C403	0248664	CD 15PF DC50V
C404	0277015	PF 0,015MF +-10% 50V
C405	0253066	EL 10MF 25V
C406	0244171	CD 0,01MF +80-20% 50V
C408	0253082	EL 1MF 50V
C409	0243511	CD 680PF +-5% 50V
C410	0243512	CD 820PF +-10% 500V
C412	0253082	EL 1MF 50V
C413	0253455	EL 4,7 MF 160V
C414	0253050	EL 100MF 16V
C415	0253456	EL 10 MF 160V
C416	0248680	CD 68PF +-5% 50V
C417	0248682	CD 82PF +-5% 50V
C418	0248672	CD 33PF +-5% 50V
C419	0244103	CD 1500PF +-10% 50V
C420	0253065	EL 4,7MF 25V
C501	0248670	CD 27PF +-5% 50V
C502	0248682	CD 82PF +-5% 50V
C503	0277013	PF 0,01MF +-10% 50V
C505	0253082	EL 1MF 50V

PRODUCT SAFETY NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION
C506	0253082	EL 1MF 50V
C507	0277015	PF 0.015MF +-10% 50V
C508	0246448	CD 22PF +-5% 50V
C509	0277025	PF 0.1MF +-10% 50V
C510	0244136	CD 270 PF+-10% 50V
C511	0244136	CD 270 PF+-10% 50V
C512	0244136	CD 270 PF+-10% 50V
C513	0277013	PF 0.01MF +-10% 50V
C514	0253051	EL 220MF 16V
C515	0253065	EL 4.7MF 25V
C516	0253084	EL 3.3MF 50V
C517	0253066	EL 10MF 25V
C519	0253066	EL 10MF 25V
C520	0253066	EL 10MF 25V
C521	0277005	PF 2200PF +-10% 50V
C601	0253091	EL 220MF 50V
C602	0253090	EL 100MF 50V
C603	0253065	EL 4.7MF 25V
C604	0244139	CD 1000PF +-10% 50V
C605	0253054	EL 1000MF 16V
C606	0253082	EL 1MF 50V
C607	0292716	TA 1 MF+-20% 20V
C608	0277021	PF 0.047MF +-10% 50V
C609	0244111	CD 6800PF +-10% 50V
C610	0244102	CD 1200PF +-10% 50V
C611	0253082	EL 1MF 50V
C612	0244139	CD 1000PF +-10% 50V
C613	0277013	PF 0.01MF +-10% 50V
C614	0244139	CD 1000PF +-10% 50V
C615	0248676	CD 47PF +-5% 50V
C616	0252806	EL 0.22MF 50V
C617	0244136	CD 270 PF+-10% 50V
C651	0253082	EL 1MF 50V
C701	0259842	EL 4.7MF 250V (HR)
C702	0253073	EL 470MF 25V
⚠ C703	0253089	EL 47MF DC50WV
C704	0277025	PF 0.1MF +-10% 50V
⚠ C706	0253030	EL 100MF 10V
C707	0277021	PF 0.047MF +-10% 50V
C708	0277017	PF 0.022MF +-10% 50V
C709	0277019	PF 0.033MF +-10% 50V
C710	0253085	EL 4.7MF 50V
C711	0253047	EL 22MF 16V
C712	0279851	PF 0.022MF +-10% 100V
C713	0244501	CD 1000PF +-10% 500V
⚠ C714	0299732	PP 0.0062MF+-5% 1.6KV
⚠ C715	0299932	PP 0.33MF +-10% 200V
⚠ C716	0253010	EL 100MF 6.3V
C718	0253053	EL 470MF 16V
C719	0244139	CD 1000PF +-10% 50V
C851	0244215	CD 2200PF +-10% 2KV
⚠ C901	0279718	MP 0.1MF+-10% 125V
⚠ C902	0259976	EL 470MF DC200WV
C903	0252710	EL 22MF 160V
C904	0253460	EL 100MF 160V
⚠ C905	0249145	CD 4700PF +-10% 50V
⚠ C906	0249145	CD 4700PF +-10% 50V
C907	0244541	CD 0.01MF +-10% 500V
C908	0253458	EL 33 MF 160V
C951	0252711	EL 22MF 250V
C952	0253050	EL 100MF 16V

RESISTORS

R0001	0187041	CF 100 OHM +-5% 1/16W
R0005	0100001	CF 2.2 OHM +-5% 1/8W
R0006	0100001	CF 2.2 OHM +-5% 1/8W
R0101	0187113	CF 100K OHM +-5% 1/16W
R0102	0187075	CF 2.7K OHM +-5% 1/16W
R0103	0187065	CF 1K OHM +-5% 1/16W
R0104	0150036	VR 2K OHM-B RS-8
R0105	0187061	CF 680 OHM +-5% 1/16W
R0106	0100045	CF 150 OHM +-5% 1/8W
R0107	0100059	CF 560 OHM +-5% 1/8W
R0108	0187083	CF 5.6K OHM +-5% 1/16W
R0109	0100083	CF 5.6K OHM +-5% 1/8W
R0110	0100065	CF 1K OHM +-5% 1/8W
R0111	0100065	CF 1K OHM +-5% 1/8W
R0114	0100065	CF 1K OHM +-5% 1/8W
R0118	0100065	CF 1K OHM +-5% 1/8W
R0119	0100065	CF 1K OHM +-5% 1/8W
R0122	0187113	CF 100K OHM +-5% 1/16W
R0123	0187113	CF 100K OHM +-5% 1/16W
R0124	0187113	CF 100K OHM +-5% 1/16W
R0125	0187113	CF 100K OHM +-5% 1/16W
R0126	0187113	CF 100K OHM +-5% 1/16W
R0136	0187069	CF 1.5K OHM +-5% 1/16W
R0137	0187081	CF 4.7K OHM +-5% 1/16W
R0138	0187077	CF 3.3K OHM +-5% 1/16W
R0139	0150039	VR RS-8 20 KOHM-B
R0140	0187113	CF 100K OHM +-5% 1/16W
R0141	0187083	CF 5.6K OHM +-5% 1/16W
R0142	0187097	CF 22K OHM +-5% 1/16W
R0143	0187079	CF 3.9K OHM +-5% 1/16W
R0144	0187083	CF 5.6K OHM +-5% 1/16W
R0145	0187081	CF 4.7K OHM +-5% 1/16W
R0146	0187113	CF 100K OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION
R0147	0187097	CF 22K OHM +-5% 1/16W
R0148	0187081	CF 4.7K OHM +-5% 1/16W
R0149	0187047	CF 180 OHM +-5% 1/16W
R0150	0187077	CF 3.3K OHM +-5% 1/16W
R0151	0187111	CF 82K OHM +-5% 1/16W
R0152	0187111	CF 82K OHM +-5% 1/16W
R0153	0187107	CF 56K OHM +-5% 1/16W
R0154	0187109	CF 68K OHM +-5% 1/16W
R0155	0187093	CF 15K OHM +-5% 1/16W
R0156	0187077	CF 3.3K OHM +-5% 1/16W
R0157	0187099	CF 27K OHM +-5% 1/16W
R0158	0187057	CF 470 OHM +-5% 1/16W
R0159	0187065	CF 1K OHM +-5% 1/16W
R0161	0187077	CF 3.3K OHM +-5% 1/16W
R0162	0187107	CF 56K OHM +-5% 1/16W
R0163	0187065	CF 1K OHM +-5% 1/16W
R0164	0187081	CF 4.7K OHM +-5% 1/16W
R0165	0187073	CF 2.2K OHM +-5% 1/16W
R0169	0187053	CF 330 OHM +-5% 1/16W
R0170	0150036	VR 2K OHM-B RS-8
R0171	0187061	CF 680 OHM +-5% 1/16W
R0172	0100117	CF 150K OHM +-5% 1/8W
R0174	0187089	CF 10K OHM +-5% 1/16W
R0175	0187083	CF 5.6K OHM +-5% 1/16W
R0176	0187093	CF 15K OHM +-5% 1/16W
R0177	0187089	CF 10K OHM +-5% 1/16W
R0178	0187097	CF 22K OHM +-5% 1/16W
R0179	0187081	CF 4.7K OHM +-5% 1/16W
R0180	0187089	CF 10K OHM +-5% 1/16W
R0181	0187077	CF 3.3K OHM +-5% 1/16W
R0182	0187057	CF 470 OHM +-5% 1/16W
R0183	0187073	CF 2.2K OHM +-5% 1/16W
R0184	0187089	CF 10K OHM +-5% 1/16W
R0185	0187089	CF 10K OHM +-5% 1/16W
R0186	0100083	CF 5.6K OHM +-5% 1/8W
R0195	0187089	CF 10K OHM +-5% 1/16W
R0196	0187077	CF 3.3K OHM +-5% 1/16W
R0197	0187107	CF 56K OHM +-5% 1/16W
R0198	0187049	CF 220 OHM +-5% 1/16W
R0199	0187087	CF 8.2K OHM +-5% 1/16W
R0201	0187065	CF 1K OHM +-5% 1/16W
R0202	0187107	CF 56K OHM +-5% 1/16W
R0203	0187109	CF 68K OHM +-5% 1/16W
R0204	0113733	CF 220 OHM +-5% 1/2W
R0205	0100081	CF 4.7K OHM +-5% 1/8W
R101	0100065	CF 1K OHM +-5% 1/8W
R202	0150038	VR 10K OHM-B RS-8
R203	0187083	CF 5.6K OHM +-5% 1/16W
R204	0187095	CF 18K OHM +-5% 1/16W
R205	0187073	CF 2.2K OHM +-5% 1/16W
R206	0187113	CF 100K OHM +-5% 1/16W
R208	0187075	CF 2.7K OHM +-5% 1/16W
R209	0187049	CF 220 OHM +-5% 1/16W
R211	0100053	CF 330 OHM +-5% 1/8W
R219	0187027	CF 27 OHM +-5% 1/16W
R220	0187065	CF 1K OHM +-5% 1/16W
R221	0113725	CF 100 OHM +-5% 1/2W
R222	0100033	CF 47 OHM +-5% 1/8W
R223	0100047	CF 180 OHM +-5% 1/8W
R301	0187065	CF 1K OHM +-5% 1/16W
R302	0187065	CF 1K OHM +-5% 1/16W
R303	0187063	CF 820 OHM +-5% 1/16W
R305	0100077	CF 3.3K OHM +-5% 1/8W
R306	0187101	CF 33K OHM +-5% 1/16W
R307	0150520	VR 11-GANGED
R311	0187053	CF 330 OHM +-5% 1/16W
R314	0100121	CF 220K OHM +-5% 1/8W
R315	0187095	CF 18K OHM +-5% 1/16W
R316	0187095	CF 18K OHM +-5% 1/16W
R317	0187074	CF 2.4K OHM +-5% 1/16W
R318	0187095	CF 18K OHM +-5% 1/16W
R319	0187063	CF 820 OHM +-5% 1/16W
R320	0114149	CF 560 OHM +-5% 1/4W
R322	0187079	CF 3.9K OHM +-5% 1/16W
R323	0187095	CF 18K OHM +-5% 1/16W
R401	0110115	MF 56 OHM +-5% 1W
R402	0187065	CF 1K OHM +-5% 1/16W
R403	0187055	CF 390 OHM +-5% 1/16W
R404	0187063	CF 820 OHM +-5% 1/16W
R405	0187083	CF 5.6K OHM +-5% 1/16W
R406	0187041	CF 100 OHM +-5% 1/16W
R407	0187073	CF 2.2K OHM +-5% 1/16W
R408	0187061	CF 680 OHM +-5% 1/16W
R409	0100109	CF 68K OHM +-5% 1/8W
R410	0110122	MF 110 OHM+-5% 1W
R411	0110169	MF 10K OHM +-5% 1W
R412	0100122	CF 240K OHM +-5% 1/8W
R413	0187063	CF 820 OHM +-5% 1/16W
R415	0187057	CF 470 OHM +-5% 1/16W
R416	0113725	CF 100 OHM +-5% 1/2W
R418	0100053	CF 330 OHM +-5% 1/8W
R501	0187073	CF 2.2K OHM +-5% 1/16W
R503	0100127	CF 390K OHM +-5% 1/8W
R504	0187071	CF 1.8K OHM +-5% 1/16W
R506	0187053	CF 330 OHM +-5% 1/16W
R507	0187053	CF 330 OHM +-5% 1/16W
R508	0187053	CF 330 OHM +-5% 1/16W
R513	0179536	MG 1M OHM +-5% 1/8W

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SYMBOL NO.	PART NO.	DESCRIPTION
R514	0187101	CF 33K OHM +-5% 1/16W
R515	0187089	CF 10K OHM +-5% 1/16W
R516	0187107	CF 56K OHM +-5% 1/16W
R518	0187083	CF 5.6K OHM +-5% 1/16W
R521	0187077	CF 3.3K OHM +-5% 1/16W
R522	0187081	CF 4.7K OHM +-5% 1/16W
R523	0187081	CF 4.7K OHM +-5% 1/16W
R526	0100097	CF 22K OHM +-5% 1/8W
R528	0187091	CF 12K OHM +-5% 1/16W
⚠ R601	0119505	FR 2.2 OHM +-5% 1/4W
R602	0187097	CF 22K OHM +-5% 1/16W
R603	0187101	CF 33K OHM +-5% 1/16W
R604	0187047	CF 180 OHM +-5% 1/16W
R605	0113733	CF 220 OHM +-5% 1/2W
R606	0113687	CF 3 OHM +-5% 1/2W
R607	0187091	CF 12K OHM +-5% 1/16W
R608	0150034	VR 500 OHM-B RS-8
R609	0187089	CF 10K OHM +-5% 1/16W
R612	0100121	CF 220K OHM +-5% 1/8W
R613	0187103	CF 39K OHM +-5% 1/16W
R614	0187084	CF 5.6K OHM +-5% 1/16W
R615	0187059	CF 560 OHM +-5% 1/16W
R616	0100125	CF 330K OHM +-5% 1/8W
R621	0114163	CF 1.2K OHM +-5% 1/4W
R622	0187065	CF 1K OHM +-5% 1/16W
R623	0187065	CF 1K OHM +-5% 1/16W
R624	0187110	CF 75K OHM +-5% SRD1/16P
R626	0187103	CF 39K OHM +-5% 1/16W
R629	0187029	CF 33 OHM +-5% 1/16W
R701	0113696	CF 6.8 OHM +-5% 1/2W
⚠ R702	0119512	MF 1 OHM +-5% 1W
⚠ R703	0119505	FR 2.2 OHM +-5% 1/4W
R704	0114281	CF 100K OHM +-5% 1/4W
⚠ R706	0187047	CF 180 OHM +-5% 1/16W
R707	0113767	CF 5.1K OHM +-5% 1/2W
⚠ R708	0119505	FR 2.2 OHM +-5% 1/4W
⚠ R710	0187075	CF 2.7K OHM +-5% 1/16W
R711	0110255	MF 2.7K OHM +-5% 2W
R712	0187053	CF 330 OHM +-5% 1/16W
R713	0110267	MF 8.2K OHM +-5% 2W
R714	0187067	CF 1.2K OHM +-5% 1/16W
⚠ R715	0110104	MP 20 OHM+-5% 1W
⚠ R716	0110104	MP 20 OHM+-5% 1W
⚠ R717	0110104	MP 20 OHM+-5% 1W
⚠ R719	0187081	CF 4.7K OHM +-5% 1/16W
R720	0114137	CF 180 OHM +-5% 1/4W
R721	0113756	CF 1.8K OHM +-5% 1/2W
R724	0110255	MF 2.7K OHM +-5% 2W
R727	0187075	CF 2.7K OHM +-5% 1/16W
R729	0110139	MF 560 OHM +-5% 1W
R730	0113758	CF 2.2K OHM +-5% 1/2W
⚠ R742	0187055	CF 390 OHM +-5% 1/16W
R747	0114173	CF 3.3K OHM +-5% 1/4W
⚠ R749	0110104	MP 20 OHM+-5% 1W
R851	0100043	CF 120 OHM +-5% 1/8W
R852	0100049	CF 220 OHM +-5% 1/8W
R853	0100047	CF 180 OHM +-5% 1/8W
R854	0150078	VR 500 OHM-B RV-8
R855	0150078	VR 500 OHM-B RV-8
R856	0100067	CF 1.2K OHM +-5% 1/8W
R857	0100067	CF 1.2K OHM +-5% 1/8W
R858	0100067	CF 1.2K OHM +-5% 1/8W
R859	0150081	VR 5K OHM-B RV-8
R860	0150081	VR 5K OHM-B RV-8
R861	0150081	VR 5K OHM-B RV-8
R862	0110271	MF 12K OHM +-5% 2W
R863	0110271	MF 12K OHM +-5% 2W
R864	0110271	MF 12K OHM +-5% 2W
R865	0113760	CF 2.7K OHM +-5% 1/2W
R866	0113754	CF 1.5K OHM +-5% 1/2W
R867	0113760	CF 2.7K OHM +-5% 1/2W
R868	0100053	CF 330 OHM +-5% 1/8W
R869	0100053	CF 330 OHM +-5% 1/8W
R870	0100069	CF 1.5K OHM +-5% 1/8W
R871	0100049	CF 220 OHM +-5% 1/8W
⚠ R901	0139015	CC 1M OHM +-10% 1/2W
⚠ R902	0141133	WW 2.7 OHM +-10% 7W
⚠ R903	0110101	MF 15 OHM +-5% 1W
⚠ R904	0141092	WW 180 OHM +-5%
R905	0113778	CF 15K OHM +-5% 1/2W
R906	0100121	CF 220K OHM +-5% 1/8W
⚠ R907	0119508	FR 56 OHM +-5% 1/4W
⚠ R908	0110101	MF 15 OHM +-5% 1W
⚠ R909	0110101	MF 15 OHM +-5% 1W
⚠ R910	0113709	CF 22 OHM +-5% 1/2W
R911	0110271	MF 12K OHM +-5% 2W
⚠ R951	0110105	MF 22 OHM +-5% 1W
R952	0113799	CF 100K OHM +-5% 1/2W
⚠ R953	0119514	FR 10 OHM +-5% 1/4W
R954	0110279	MF 27K OHM +-5% 2W
R955	0110279	MF 27K OHM +-5% 2W
R959	0100025	CF 22 OHM +-5% 1/8W
R960	0113795	CF 68K OHM +-5% 1/2W
R961	0100085	CF 6.8K OHM +-5% 1/8W
R962	0100025	CF 22 OHM +-5% 1/8W

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SYMBOL NO.	PART NO.	DESCRIPTION
ICs		
IC000	2366411	IC UPD1943G
IC010	2366621	IC LA7910
IC010	2366631	IC AN5020
IC010	2913091	IC MN14834H
IC201	2368692	IC LA7521
⚠ IC501	2910012	IC LA7621
IC502	2913081	IC LA690
⚠ IC601	2910021	IC LA7830
⚠ IC901	2912175	IC STR30135
TRANSISTORS		
Q0002	2521982	TR 2SC2060(Q/R)
Q0101	2521621	TR 2SC458(B/C)/2SC1740
Q0102	2521621	TR 2SC458(B/C)/2SC1740
Q0103	2524084	TR 2SK105 E/F
Q0104	2520663	TR 2SC1213AC
Q0105	2523351	TR 2SA937(R)
Q0107	2521621	TR 2SC458(B/C)/2SC1740
Q0108	2521621	TR 2SC458(B/C)/2SC1740
Q0109	2521621	TR 2SC458(B/C)/2SC1740
Q0110	2520644	TR 2SC1213D
Q0111	2521621	TR 2SC458(B/C)/2SC1740
Q0114	2521621	TR 2SC458(B/C)/2SC1740
Q101	2521982	TR 2SC2060(Q/R)
Q201	2521621	TR 2SC458(B/C)/2SC1740
Q301	2520637	TR 2SA673C/D
Q302	2520598	TR 2SC458B/C/D
Q303	2520598	TR 2SC458B/C/D
Q401	2523112	TR 2SD1138 C
Q402	2523112	TR 2SD1138 C
Q601	2521351	TR 2SA836/844 D/E
Q701	2521992	TR 2SC2271(M/N)
⚠ Q702	2524411	TR 2SD1453
Q703	2523432	TR 2SC1983R/O/Y
Q851	2522561	TR 2SC2688 K/L/M/N
Q852	2522561	TR 2SC2688 K/L/M/N
Q853	2522561	TR 2SC2688 K/L/M/N
⚠ Q951	2521306	TR 2SD401/2SD401A K/L
DIODES		
D0001	2532892	DI SE303A
D0003	2331351	DI 1S2076/1S2473H
D0004	2331351	DI 1S2076/1S2473H
D0101	2332431	DI PH302
D0102	2331351	DI 1S2076/1S2473H
D0106	2331351	DI 1S2076/1S2473H
D0107	2331351	DI 1S2076/1S2473H
D0110	2331351	DI 1S2076/1S2473H
D0113	2331351	DI 1S2076/1S2473H
D0114	2331351	DI 1S2076/1S2473H
D0117	2331351	DI 1S2076/1S2473H
D0121	2331351	DI 1S2076/1S2473H
D0126	2331351	DI 1S2076/1S2473H
D0128	2331351	DI 1S2076/1S2473H
D0129	2331351	DI 1S2076/1S2473H
D0130	2331351	DI 1S2076/1S2473H
D0131	2331351	DI 1S2076/1S2473H
D0132	2331351	DI 1S2076/1S2473H
D0133	2331351	DI 1S2076/1S2473H
D0134	2331351	DI 1S2076/1S2473H
D302	2331351	DI 1S2076/1S2473H
D401	2331351	DI 1S2076/1S2473H
D501	2331351	DI 1S2076/1S2473H
D502	2331351	DI 1S2076/1S2473H
D601	2332142	DI PH-1
D602	2331201	DI WD-6B
D605	2331351	DI 1S2076/1S2473H
D606	2330352	DI 1S2076A
D607	2331351	DI 1S2076/1S2473H
D651	2331351	DI 1S2076/1S2473H
D701	2330553	DI V09G
D702	2336291	DI DFA1A2
⚠ D703	2330352	DI 1S2076A
D706	2331351	DI 1S2076/1S2473H
D711	2330352	DI 1S2076A
⚠ D901	2332794	DI RB-156 LFB
⚠ D951	2330253	DI V06G
D952	2330352	DI 1S2076A
D954	2331351	DI 1S2076/1S2473H
D955	2331351	DI 1S2076/1S2473H
⚠ D956	2330253	DI V06G
D957	2331351	DI 1S2076/1S2473H
D958	2331351	DI 1S2076/1S2473H
ZD010	2334122	ZD RD5.1EB1
ZD010	2334122	ZD RD5.1EB1
ZD010	2334122	ZD RD5.1EB1
ZD010	2334312	DI RD33EB1
ZD101	2331807	ZD HZ6(C)1
ZD201	2331154	ZD HZ12(A)/(B)/(C)
ZD501	2331154	ZD HZ12(A)/(B)/(C)
ZD502	2331154	ZD HZ12(A)/(B)/(C)

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SYMBOL NO.	PART NO.	DESCRIPTION
ZD503	2331154	ZD HZ12(A)/(B)/(C)
ZD601	2334312	DI RD33EB1
⚠ ZD701	2335461	ZD HZ24L-2
ZD702	2331155	ZD HZ12(C)
⚠ ZD704	2331782	ZD HZ-4 A2
ZD951	2331842	ZD HZ12(A)2
ZD952	2334052	ZD RD2.7EB1
THERMISTORS		
⚠ TH901	2340521	PTC THERMISTOR
COILS		
L0101	2122253	LA AXIAL COIL
L0104	2122937	AXIAL COIL
L0105	2122253	LA AXIAL COIL
L202	2142951	TRAP COIL
L203	2142941	IF COIL
L204	2142941	IF COIL
L205	2122944	LAL AXIAL COIL 12 UH
L206	2122253	LA AXIAL COIL
L301	2122956	LAL AXIAL COIL 100MH +-10%
L401	2122954	LAL AXIAL COIL 68MH +-10%
L501	2122943	LAL AXIAL COIL 10MH +-10%
L702	2122096	FILTER COIL 33MH
L851	2122254	LA AXIAL COIL 120 UH
⚠ L901	2121672	FILTER COIL
⚠ L902	2162416	DEGAUSSING COIL
L951	2122253	LA AXIAL COIL
L952	2122253	LA AXIAL COIL
TRANSFORMERS		
T0101	2161994	LOW FREQUENCY COIL
T401	2250359	S.O.T.
T701	2260021	TRANS HORIZONTAL DRIVE
T702	2434391	FLYBACK TRANSFORMER
COMPOUND COMPONENTS		
CP201	2300271	SAW FILTER HW2065
CP202	2786831	PRE-AMP
MF000	2790841	CERAMIC FILTER CSB455FB
MF201	2142241	CERAMIC FILTER 4.5MHZ
MF401	2142601	CERAMIC FILTER 4.5MHZ
MF402	2142761	CERAMIC DISCRI
MF701	2791062	CERAMIC OSC

SYMBOL NO.	PART NO.	DESCRIPTION
FUSES		
⚠ F901	2720587	FUSE 4A
⚠ F902	2720811	FUSE 1A
MISCELLANEOUS		
DL301	2163521	DELAY LINE
ES	2661752	3P PIN PLUG WITH BASE
E02	2680575	BS TERMINAL
E101	2981504	ANTENNA BOX
E2001	2730063	EARPHONE
E2002	2687951	VHF ADAPTOR
E2005	2750523	LOOP ANTENNA
E3002	0043209	TELESCOPIC ANTENNA
E6001	2441966	DEFLECTION YOKE
E801	2784331	CPT SOCKET FOCUS COVER
E802	2659471	INSULATOR FOR FOCUS LEAD
⚠ E901	2742553	AC CORD
E902	2720221	FUSE HOLDER
E903	2787531	MICA PLATE
J451	2670292	JACK EARPHONE
J801	2950301	CPT SOCKET
N1003	2781282	BEAD BAND
N1003	2781282	BEAD BAND
N2001	4685071	OPERATING GUIDE BOOK
N3005	3749161	ANTENNA HOLDER (HTT)
N6001	4615641	WEDGE
P31	2660413	PLUG
⚠ RL951	2640333	POWER RELAY
SG851	2540037	SPARK GAP
⚠ SP401	2412511	SPEAKER 90X50
S0110	2631722	KEY SWITCH
S0111	2631722	KEY SWITCH
S0113	2631722	KEY SWITCH
S0114	2631722	KEY SWITCH
S0124	2631722	KEY SWITCH
S0125	2620801	SLIDE SWITCH
S501	2631852	PUSH ROCK SWITCH
⚠ U101	2425953	TUNER ET-397PA
⚠ V1	2253802	PICTURE TUBE A48AAJ10X
X0101	2785302	CRYSTAL 4.5MHZ
X501	2790441	CRYSTAL

HITACHI PARTS ORDERING INFORMATION

To receive original replacement parts, please contact your nearest HITACHI Parts Distributor or contact Hitachi Central Parts Warehouse listed below. Be sure to indicate part catalog number, part description and model number (located on back of product).

THE ELECTRONIC DISTRIBUTION CO.
1509 E. Del. Amo Blvd. Carson, CA. 90746
Phone #213-639-4120

TEL-VIDEO CORPORATION
1921 N. Milwaukee Avenue Chicago, ILL. 60647
Phone #312-235-6190

REMCOR ELECTRONICS
10670 W. 9 Mile Road Oak Park, MI. 48237
Phone #313-541-5666

VANCE BALDWIN, INC.
7700 N.W. 7th Avenue Miami, FLA. 33150
Phone #305-693-2921

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